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### Imperial Patent Office

Patent Application No.: 222 35

Class 22b, Group 3

BADEN ANILINE- & SODA FACTORY in LUITAVIGS TEN

Process for the Preparation of Condensation Products of the Anti-acene Series.

Addition to the Patent 220579 Unted February 70, 190

Patented in the German series starting from North 12 - 29.

Period of applicability: February 19, 1-74.

In the patent 220579, a process is described for the propuration of anders on products from halogen ketones of the general type

HI - R - CO - R - HI

(wherein R stands for an unsubstituted or a substituted around ic on liphath residue, HI stands for a halogen atom) and amines of the anti-racene sories

It has now been shown that the halogen aiketone of type HI - R - PO - C R - HI can also be condensed with amines of the anthraquinone series forming new condensation products, in which the anthraquinone molecule is linked to the diketone molecule through the lide group, as illustrated by the general formula

A - NH - R - CO - CO - R - NH - A

## Fragebogen zur KundenZUFRIEDENHEIT

(in which A stands for an anthraquinone group)

#### Example

50 parts of 4,4<sup>1</sup> – dichlorobenzene, 100 parts of 1-aminoauthraquitione, 2 marts of calcusoda, 2 parts of copper oxide and 1500 parts of nitrobenzene are heated ill commition of the reaction. After cooling, the precipitated, crystalline, reaction product is filtered, wished and dried with nitrobenzene and alcohol to form fine brown crystalline needles which discuss sparingly in cold and quickly in hot nitrobenzene giving reddish brown colour. The war of concentrated sulphuric acid solution is olive, that in 23% olcum is greenish-blu.

One proceeds in the same manner while using other halogen ket hes a stype place of 1-aminoanthraquinone, other amino compounds of anthraquinous are its dealso be used, the nitrobenzene can be replaced in the same way by an addition, one can also add cuprous chloride instead of copper exidence for the content of the same way by an addition, one can also add cuprous chloride instead of copper exidence for the content of the

type described. In its derivatives can her inert agent. In e condensation.

#### PATENT - CLAIM

In the process of the Patent 220579, as established, one uses to begon the of the general formula

$$HI - R - CO - CO - R - HI$$

instead of halogen ketone of the formula HI - R - CO - R - HI

as required in the main Patent

(in which R stands for an unsubstituted or a substituted aromatic or ali, and group, HI stands for a halogen atom).